

I CLAIM:

1. A nail driving gun comprising:

a gun housing having a front open end that defines a nail-discharging passage extending in a

5 longitudinal direction;

a solenoid mounted in said gun housing and adapted to be actuated upon receiving a current from a power source, said solenoid including a coil member and a magnetic core which are aligned in said longitudinal

10 direction and which are magnetically attracted to each other in such a manner that said magnetic core is movable in a frontward direction along said longitudinal direction and said coil member is movable in a rearward direction opposite to said

15 frontward direction when said solenoid is actuated, said magnetic core being disposed rearwardly of said coil member and having a front end;

a striking pin extending from said front end of said magnetic core through said coil member and into

20 said nail discharging passage so as to be movable together with said magnetic core and so as to adapted to expel a nail from said nail discharging passage;

an urging member mounted in said gun housing for restoring said magnetic core to a normal position

25 after expelling the nail; and

a shock-absorbing member mounted in said gun housing and disposed rearwardly of and resiliently

abutting against said coil member so as to provide a shock-absorbing effect on said nail driving gun when said coil member is magnetically drawn by said magnetic core to move in said rearward direction.

- 5 2. The nail driving gun of Claim 1, wherein said gun housing defines an inner space therein, and is formed with front and rear guiding seats that are disposed in said inner space between said urging member and said front open end of said gun housing and that
- 10 respectively define a front guiding channel adjacent to said front open end, and a rear guiding channel adjacent to said urging member, said front and rear guiding channels and said nail discharging passage being aligned in said longitudinal direction, said
- 15 coil member defining a magnetic core passage for extension of said magnetic core therein, and having an intermediate section, a front end section reducing from said intermediate section and extending into said front guiding channel, and a rear end section
- 20 opposite to said front end section, reducing from said intermediate section, and extending into said rear guiding channel, said shock-absorbing member being in the form of a coil spring that is disposed between and that abuts against said rear guiding seat and said
- 25 intermediate section of said coil member.